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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,312	09/30/2003	Hao Pan	SLA1347 (7146.0167)	8186
55648 7590 07/28/2008 KEVIN L. RUSSELL CHERNOFF, VILHAUER, MCCLUNG & STENZEL LLP			EXAMINER	
			KOVALICK, VINCENT E	
1600 ODSTOWER 601 SW SECOND AVENUE		ART UNIT	PAPER NUMBER	
PORTLAND, OR 97204			2629	
			MAIL DATE	DELIVERY MODE
			07/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/676,312	PAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	VINCE E. KOVALICK	2629			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>09 Jul</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 2 is/are rejected. 7) ☐ Claim(s) 3 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 30 September 2003 is/a Applicant may not request that any objection to the correction and request that any objection and r	r election requirement. r. are: a)⊠ accepted or b)□ objected or by objected or	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :11/10/03, 1/16/04, 10/19/06, 10/31/06, 12/11/06 & 3/19/07.

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DETAILED ACTION

Response to Amendment and RCE

- 1. This Office Action is in response to Applicant's Amendment dated June 9, 2008 and Request for Continued Examination (RCE) dated July 17, 2008.
 - o Applicant's amendment dated June 9, 2008 has been noted and entered in the record.
 - o In view of the amendment to claim 3, the 35 U.S.C. 112, second paragraph rejection set forth in USPTO Office Action dated April 17, 2008 is herewith withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekiya et al. (Pub. No US 2003/0006949) taken with Overdick et al. (Pub. No. 2002/0024017).

 Relative to claim 1, Sekiya et al. **teaches** a Liquid Crystal Display device (pgs. 1-2, paras. 0009-0017); Sekiya et al. further **teaches** a method of modifying an image to be displayed on a display; (a) receiving at least a portion of said image; and (b) modifying said image to alternatively increase or decrease said at least one pixel's luminance output by overdriving at least one pixel of said image, for a current frame, to a current value that is selected (pgs. 1-2, paras. 0010-0011; pg. 3, paras. 0035-0036; and pg. 5, paras. 0046-0052) based upon:

at least one previously displayed luminance value of said pixel in respective ones of at least one previous frame of said image (pg. 5, para 0049).

Sekiya et al **does not teach** at least one predicted displayed luminance value of said pixel in respective ones of at least one subsequent frame of said image;

Overdick et al. **teaches** an image correction method (pg. 1, paras. 0001-0016); Overdick et al. further **teaches** at least one predicted displayed luminance value of said pixel in respective ones of at least one subsequent frame of said image (pg. 2, para. 0024).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to provide to the device as taught by Sekiya et al. the feature as taught by Overdick et in al. in order to put in place the means to capture the pixel brightness level of the same pixel in the subsequent frame.

Regarding claim 2, Sekiya et al. further **teaches** the method step wherein said at least one previously displayed luminance value of said pixel is stored in respective frame buffers (pg. 5, para. 0049).

Allowable Subject Matter

4. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Relative to claim 2, the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art of record **does not teach** the method step wherein a first said previously displayed luminance value is at a state where liquid

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crystal material associated with said pixel of said display is not at an equilibrium state, and where a second said previously displayed luminance value is at a state where said liquid crystal material associated with said pixel is at an equilibrium state, and where said second said previously displayed luminance value is from the earliest said at least one frame, upon which selection of said current value is based.

Response to Applicant's Remarks

5. Applicant's argument that the Sekiya et al. reference (Pub. No. 2003/0006949) does not teach the limitation "at least one predicted displayed luminance value of said pixel in respective ones of at least one subsequent frame of said image" has merit. The Overdick et al. reference, (Pub. No. 2002/0024017), is introduced to teaches this limitation more clearly (pg. 2, para. 0024).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 5,293,159 Bassetti, Jr. et al.

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To Respond

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to VINCE E. KOVALICK whose telephone number is (571)272-

7669. The examiner can normally be reached on Monday-Thursday 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vincent E Kovalick/ Examiner, Art Unit 2629 July 24, 2008

/Bipin Shalwala/

Supervisory Patent Examiner, Art Unit 2629

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